Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

	THE WATTERCATION	TRANSMITTAE N
Transmitted	l herewith for filing is the patent application of	
Inventor(s):	Young-Kwang Kim Hee-Sung Kang	CERTIFICATE OF MAHING
For (title):	SEMICONDUCTOR DEVICE HAVING JUNCTION DIODE AND FABRICATING METHOD THEREFOR	CERTIFICATE OF MAILING 37 C.F.R. § 1.10 "Express Mail" Mailing Label Number EV322657287US I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for Patents B.O. Post 1450. Advanced in VA 22213, 1450.
1. Ty a(r.	rpe of Application This new application is for n)	Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Date: Date: Jio v Vanessa Marakas Vaness
	Original (nonprovisional) Design	Date: JID OY VINULIUMAN Vanessa Marakas VAIWS CU Wavakas Print Name
. 57	Plant	
	Divisional.	
	Continuation.	·
Ц	Continuation-in-part (C-I-P).	
2. Benefi	it_of Prior Application(s)	
-	The new application is a divisional application filed on August 24, 2000, which claims printfiled October 5, 1999. See Item 7.	
3. Pape	ers Enclosed	
_1	8 Pages of specification	
_4	Pages of claims	
_1	Page of Abstract	
_1	1 Sheets of drawings ☑ formal	,
		•
	informal	

The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT

PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).

4.	Addi	tional papers	enclosed			
		Preliminary	Amendment			
		Information	Disclosure Statement (37 C.F.R. 1.98)			
		Form PTO-1	449 (PTO/SB/08A and 08B)			
		Copies of cit	red references			
		Declaration	of Biological Deposit			
			of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for my invention containing nucleoticle and/or amino acid sequence.			
		Authorizatio	on of Attorney(s) to Accept and Follow Instructions from Representative			
		Special Con	nments			
	\boxtimes	Other: Retur	rn Postcard.			
5.	Dec	laration or oa	ath .			
	\boxtimes	Enclosed				
		□ Unexec	cuted			
		⊠ Execute	ed by			
1			inventors. The enclosed Declaration is a true copy of the Declaration filed in U.S. patent application serial no. <u>09/645,285</u> , the parent of the present divisional application.			
			legal representative of inventor(s). 37 CFR 1.42 or 1.43.			
			joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.			
	•		This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 12 below for fee.			
		Not Enclose	ed .			
	Application is made by a person authorized under inventor(s).		is made by a person authorized under 37 C.F.R. 1.41 (c) on behalf of all the above named			
			Showing that the filing is authorized.			
6.	Assig	nment				
	\boxtimes	An assignment of the invention to <u>Samsung Electronics Co., Ltd.</u>				
		☐ is attac	hed. A separate \square "COVER SHEET FOR ASSIGNMENT (DOCUMENT) NYING NEW PATENT APPLICATION" or \square FORM PTO 1595 is also attached.			
		_	1 in parent application U.S. serial no. 09/645,285.			

7. Certified Copy

Certified copy(ies) of application(s)

Korea	99-42805	October 5, 1999
Country	Appln. no.	Filed
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Country	Appln. no.	Filed
Country	Appln. no.	Filed
ty is claimed		•

from which priority is claimed

- is (are) attached.
- □ will follow.
- was filed in U.S. Serial No. 09/645,285, the parent of the present U.S. patent application

8. Fee Calculation (37 C.F.R. 1.16)

		CLAI	MS AS FILED		
	Number filed		Number Extra	Rate	Basic Fee 37 C.F.R. 1.16(a) \$770.00
Total Claims (37 CFR 1.16(c))	12	- 20 =	0	\$ 18.00	
Independent Claims (37 CFR 1.16(b))	2	- 3 =	0	\$ 86.00	
Multiple dependent claim if any (37 CFR 1.16(d))	(s),		+	\$290.00	

1		1 .	1.					4
ᆫ	A1 د	mendment	canceling	extra	claims	18	enclose	d.

- \square Amendment deleting multiple-dependencies is enclosed.
- \square Fee for extra claims is not being paid at this time.

Filing Fee Calculation

\$ 770.00

9.	Fee Payment Being Made at This Time
•	□ Not Enclosed
	☐ No filing fee is to be paid at this time. (This and the surcharge required by 3 7 C. F.R. 1.16(e) can be paid subsequently.)
	⊠ Enclosed
	Basic filing fee \$_770.00
	Recording assignment (\$40.00; 37 C.F.R. 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".) \$
	Total fees enclosed \$_770.00
10.	Method of Payment of Fees
	☐ Check in the amount of \$ 770.00
,	Charge Account No. 50-1798 in the amount of A duplicate of this transmittal is attached.
11.	Authorization to Charge Additional Fees
	The Commissioner is hereby authorized to charge the following additional fees during the entire pendency of this application to Account No. 50-1798.
	☑ 37 C.F.R. 1.16(a), (f) or (g) (filing fees)
*	☑ 37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims)
	37 C.F.R. 1. 1 6(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
	37 C.F.R. 1.17 (application processing fees)
	37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b))
	5. 5.1 he 1.10 (1550e fee at of before finning of fronce of Amowanice, pursuant to 5

12. Instructions as to Overpayment

☐ Credit Account No. 50-1798

□ Refund

Mills & Onello LLP

Eleven Beacon Street, Suite 605

Boston, MA 02108

Telephone: (617) 994-4900 Facsimile: (617) 742-7774 J:\SAM\0105DIV\DIVapppatentransltr.wpd Respectfully submitted,

Anthony P. Onello, Jr.

Registration Number 38,572 Attorney for Applicants

PATENT

Attorney Docket No.: SAM-0105DIV

Customer No.: 29344

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Young-Kwang Kim, et al.

Filing Date:

Herewith

Serial No.:

Divisional of U.S. Serial No. 09/645,285, filed August 24, 2000 SEMICONDUCTOR DEVICE HAVING JUNCTION DIODE

Title:

AND FABRICATING METHOD THEREFOR

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.10

"Express Mail" Mailing Label Number EV322657287US I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Sir:

Enclosed herewith for filing in the above-identified patent application please find the following listed items:

- New Application Transmittal; 1.
- New Divisional Patent Application; 2.
- 3. Eleven (11) Sheets of Formal Drawings (Figures 1-6, 7A-7D, 8-11 and 12A-12D);
- Copy of Executed Declaration, Petition and Power of Attorney; 4.
- 5. Notice of Change in Power of Attorney and Correspondence Address;
- 6. Check in the amount of \$770.00 to cover requisite fee; and
- 7. Return Postcard.

In connection with the foregoing matter, please charge any additional fees which may be due, or credit any overpayment, to Deposit Account Number 50-1798. A duplicate copy of this letter is provided for this purpose.

Respectfully submitted,

Mills & Onello LL

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Boston, MA 02108

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Anthony P. Onello, Jr. (Registration Number 38,572

Attorney for Applicants

Attorney Docket No.: SAM-0105DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Young-Kwang Kim, et al.

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SEMICONDUCTOR DEVICE HAVING JUNCTION DIODE

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Date

Vanessa Marakas

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

NOTICE OF CHANGE IN POWER OF ATTORNEY AND CORRESPONDENCE ADDRESS

Sir:

The correspondence address in the divisional application filed herewith is as follows:

SEND CORRESPONDENCE TO:

DIRECT TELEPHONE CALLS TO:

Anthony P. Onello, Jr., Esq.

Mills & Onello LLP

Eleven Beacon Street, Suite 605

Boston, Massachusetts 02108

Anthony P. Onello, Jr., Esq.

(617) 994-4900

Applicant(s): Young-Kwang Kim, et al.

The power of attorney and correspondence address were changed to the above in U.S. application serial number 09/645,285, the parent of the present divisional application. Copies of the documents effecting the change in power of attorney and correspondence address in the parent application are enclosed.

Date: February 10, 200 4 Mills & Onello LL®

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Telephone: (617) 994-4900 Facsimile: (617) 742-7774 J:\SAM\0105DIV\changeinpoa.wpd Respectfully submitted,

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